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Amendments to the Claims:

1. (Currently amended) A method for providing a recommendation to a user, said method comprising:

partitioning a plurality of items into clusters of similar items, said plurality of items corresponding to a selection history by at least one third party, said method partitioning step comprising identifying one or more mean items for a plurality of items, J, each of said items having at least one symbolic attribute, each of said symbolic attributes having at least one possible value;

wherein for each mean identified, a variance is computed of said plurality of items, J, for each of said possible symbolic values, x_{μ} , for each of said symbolic attributes; and for each of said symbolic attributes, at least one symbolic value, x_{μ} , that minimizes said variance as the mean symbolic value is selected; and,

wherein for at least one cluster, a given symbolic attribute has more than one value such that more than one mean symbolic value is determined for that symbolic attribute; and,

wherein said recommendation is based at least in part on said clusters.

- 2. (Original) The method of claim 1, wherein said mean symbolic value for each of said symbolic attributes comprises said mean of said plurality of items.
- 3. (Original) The method of claim 1, wherein said mean symbolic value for each of said symbolic attributes comprises one or more hypothetical items.
- 4. (Original) The method of claim 1, further comprising the step of assigning a label to said plurality of items using at least one symbolic value from said at least one mean of said plurality of items.
- 5. (Original) The method of claim 1, wherein said plurality of items are a cluster including similar items.

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- 6. (Original) The method of claim 1, wherein said items are programs.
- 7. (Original) The method of claim 1, wherein said items are content.
- 8. (Original) The method of claim 1, wherein said items are products.
- 9. (Original) The method of claim 1, wherein said step of computing a variance is performed as follows: Var(J)=.SIGMA..sub.i.epsilon.J(x.sub.i-x.sub..mu.).s- up.2where J is a cluster of items from the same class, x.sub.i is a symbolic feature value for item i, and x.sub..mu. is an attribute value from one of the items in J such that it minimizes said Var (J).
- 10. (Currently Amended) A method for providing a recommendation to a user, said method comprising:

partitioning a plurality of items into clusters of similar items, said plurality of items corresponding to a selection history by at least one third party, said method partitioning step comprising the steps of:

characterizing a plurality of items, J, each of said items having at least one symbolic attribute, each of said symbolic attributes having at least one possible value;

computing a variance of said plurality of items, J, for each of said possible symbolic values, x_{μ} , for each of said symbolic attributes; and characterizing said plurality of items, J, with at least one mean item by selecting for each of said symbolic attributes at least one symbolic value, x_{μ} , that minimizes said variance as the mean symbolic value; and:

wherein for at least one cluster, a given symbolic attribute has more than one value such that more than one mean symbolic value is determined for that symbolic attribute; and,

wherein said recommendation is based at least in part on said clusters.

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- 11. (Original) The method of claim 10, wherein said mean symbolic value for each of said symbolic attributes comprises at least one mean of said plurality of items.
- 12. (Original) The method of claim 10, further comprising the step of assigning a label to said plurality of items using at least one symbolic value from said at least one mean item.
- 13. (Original) The method of claim 10, wherein said plurality of items are a cluster including similar items.
- 14. (Original) The method of claim 10, wherein said mean symbolic value for each of said symbolic attributes comprises one or more hypothetical items.
- 15. (Original) The method of claim 10, wherein said step of computing a variance is performed as follows: Var(J)=.SIGMA..sub.i.epsilon.J(x.sub.i-x.sub..mu.).s- up.2where J is a cluster of items from the same class, x.sub.i is a symbolic feature value for item i, and x.sub..mu. is an attribute value from one of the items in J such that it minimizes said Var (J).
- 16. (Currently amended) A system for providing a recommendation to a user which comprises partitioning a plurality of items into clusters of similar items, said plurality of items corresponding to a selection history by at least one third party, wherein said partitioning is achieved by identifying one or more mean items for a plurality of items, J, each of said items having at least one symbolic attribute, each of said symbolic attributes having at least one possible value, said system comprising:
 - a memory for storing computer readable code; and
- a processor operatively coupled to said memory, said processor configured to: compute a variance of said plurality of items, J, for each of said possible symbolic values, x_{μ} , for each of said symbolic attributes; and select for each of said symbolic attributes at least one symbolic value, x_{μ} , that minimizes said variance as the mean symbolic value; and,

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wherein for at least one cluster, a given symbolic attribute has more than one value such that more than one mean symbolic value is determined for that symbolic attribute.

- 17. (Original) The system of claim 16, wherein said mean symbolic value for each of said symbolic attributes comprises said mean of said plurality of items.
- 18. (Original) The system of claim 16, wherein said mean symbolic value for each of said symbolic attributes comprises one or more hypothetical items.
- 19. (Original) The system of claim 16, wherein said processor is further configured to assign a label to said plurality of items using at least one symbolic value from said at least one mean of said plurality of items.
- 20. (Original) The system of claim 16, wherein said plurality of items are a cluster including similar items.
- 21. (Original) The system of claim 16, wherein said processor computes said variance as follows: Var(J)=.SIGMA..sub.i.epsilon.J(x.sub.i-x.sub..mu.).sup.2where J is a cluster of items from the same class, x.sub.i is a symbolic feature value for item i, and x.sub..mu. is an attribute value from one of the items in J such that it minimizes said Var (J).
- 22. (Currently amended) An article of manufacture for <u>providing a recommendation to a user which comprises</u> partitioning a plurality of items into clusters of similar items, said plurality of items corresponding to a selection history by at least one third party, wherein said partitioning is achieved by identifying one or more mean items for a plurality of items, J, each of said items having at least one symbolic attribute, each of said symbolic attributes having at least one possible value, the article of manufacture comprising:

a computer readable medium having computer readable code means embodied thereon, said computer readable program code means comprising: a step to compute a variance of said plurality of items, J, for each of said possible symbolic values, x_{μ} , for

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each of said symbolic attributes; and a step to select for each of said symbolic attributes at least one symbolic value, x_{μ} , that minimizes said variance as the mean symbolic value; and,

wherein for at least one cluster, a given symbolic attribute has more than one value such that more than one mean symbolic value is determined for that symbolic attribute.

23. (Currently amended) A system for <u>providing a recommendation to a user which</u> <u>comprises</u> partitioning a plurality of items into clusters of similar items, said plurality of items corresponding to a selection history by at least one third party, wherein said partitioning is achieved by identifying one or more mean items for a plurality of items, J, each of said items having at least one symbolic attribute, each of said symbolic attributes having at least one possible value, said system comprising:

means for computing a variance of said plurality of items, J, for each of said possible symbolic values, x_{μ} , for each of said symbolic attributes; and

means for selecting for each of said symbolic attributes at least one symbolic value, x_n , that minimizes said variance as the mean symbolic value; and,

wherein for at least one cluster, a given symbolic attribute has more than one value such that more than one mean symbolic value is determined for that symbolic attribute.